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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/938,677	08/24/2001	Robert H. Harris	13095	2566
75	90 09/17/2003			
Scully, Scott, Murphy & Presser			EXAMINER	
400 Garden City Plaza Garden City, NY 11530			LUKTON, DAVID	
			ART UNIT	PAPER NUMBER
			1653	
		DATE MAILED: 09/17/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/938,677	HARRIS, ROBERT H.				
Office Action Summary	Examiner	Art Unit				
	David Lukton	1653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 22 J	<u>anuary 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-72</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are rejected.						
8) Claim(s) 1-72 are subject to restriction and/or election requirement.						
Application Papers	iootion roquitomont.					
9)☐ The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents	have been received in Application	on No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) ☐ Acknowledgment is made of a claim for domestic						
_a)	visional application has been rece	eived.				
15) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. §§ 120	and/or 121.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

A restriction is imposed, as set forth below. First, however, the following subgenera are defined:

- **G1**: R is hydrogen or lower alkyl, and R is substituted;
- **G2**: R is hydrogen or lower alkyl, and R is unsubstituted;
- **G3**: R1 is hydrogen or lower alkyl, and R1 is substituted;
- **G4**: R1 is hydrogen or lower alkyl, and R1 is unsubstituted;
- G5: the substituents can vary as the claims permit, provided that G1 G4 are excluded;
- **G6**: The disorder is pain, a headache, or bipolar disease;
- G7: The disorder can be whatever is permitted by claim 50, provided that G6 is excluded

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Restriction to one of the following inventions is required under 35 U.S.C. §121:

- 1. Claims 1-4, 6-8, 11-13, 15-19, 51, 55, 58, drawn to a method, limited to compounds in which R is limited to G1.
- 2. Claims 1-4, 6-8, 11-13, 15-19, 51, 55, 58, drawn to a method, limited to compounds in which R is limited to G2.
- 3. Claims 1-4, 6-8, 11-13, 15-19, 51, 55, 58 drawn to a method, limited to compounds in which R1 is limited to G3.
- 4. Claims 1-19, 51, 55, 58, drawn to a method, limited to compounds in which R1 is limited to G4.

- 5. Claims 1-4, 6-8, 11-13, 15-19, 51, 55, 58, drawn to a method, limited to G5.
- 6. Claims 20-23, 25-27, 29-31, 34, 52, 56, 59-67, drawn to a method, limited to compounds in which R is limited to G1.
- 7. Claims 20-23, 25-27, 29-31, 34, 52, 56, 59-67, drawn to a method, limited to compounds in which R is limited to G2.
- 8. Claims 20-23, 25-27, 29-31, 34, 52, 56, 59-67, drawn to a method, limited to compounds in which R1 is limited to G3.
- 9. Claims 20-34, 52, 56, 59-67, drawn to a method, limited to compounds in which R1 is limited to G4.
- 10. Claims 20-23, 25-27, 29-31, 34, 52, 56, 59-67, drawn to a method, limited to G5.
- 11. Claims 35-38, 40-42, 44-46, 49, 53, 57, 68-72, drawn to a method, limited to compounds in which R is limited to G1.
- 12. Claims 35-38, 40-42, 44-46, 49, 53, 57, 68-72, drawn to a method, limited to compounds in which R is limited to G2.
- 13. Claims 35-38, 40-42, 44-46, 49, 53, 57, 68-72, drawn to a method, limited to compounds in which R1 is limited to G3.
- 14. Claims 35-49, 53, 57, 68-72, drawn to a method, limited to compounds in which R1 is limited to G4.
- 15. Claims 35-38, 40-42, 44-46, 49, 53, 57, 68-72, drawn to a method, limited to G5.
- 16. Claims 50 and 54, drawn to the method of G6, wherein the method of G6 is limited to

compounds in which R is limited to G1.

- 17. Claims 50 and 54, drawn to the method of G6, wherein the method of G6 is limited to compounds in which R is limited to G2.
- 18. Claims 50 and 54, drawn to the method of G6, wherein the method of G6 is limited to compounds in which R1 is limited to G3.
- 19. Claims 50 and 54, drawn to the method of G6, wherein the method of G6 is limited to compounds in which R1 is limited to G4.
- 20. Claims 50 and 54, drawn to the method of G6, wherein the method of G6 is limited to compound that are limited to G5.
- 21. Claims 50 and 54, drawn to the method of G7, wherein the method of G7 is limited to compounds in which R is limited to G1.
- 22. Claims 50 and 54, drawn to the method of G7, wherein the method of G7 is limited to compounds in which R is limited to G2.
- 23. Claims 50 and 54, drawn to the method of G7, wherein the method of G7 is limited to compounds in which R1 is limited to G3.
- 24. Claims 50 and 54, drawn to the method of G7, wherein the method of G7 is limited to compounds in which R1 is limited to G4.
- 25. Claims 50 and 54, drawn to the method of G7, wherein the method of G7 is limited to compound that are limited to G5.

The claimed inventions are distinct. First, a substantial portion of the compounds to which the method claims are drawn are known in the prior art. Second, each of claims 1, 20, 35, and 50 is drawn to a method for treating a different disorder. Third, many of the compounds (to which the claims are drawn) are known for the purposes recited in the claims. One of the principle reasons for lack of novelty is the recitation that variable "R" or R1 can be either hydrogen or alkyl that is "substituted" with an electron-donating or withdrawing group. As it happens, nearly all organic substituents, and for that matter, inorganic substituents fall into one of these two categories. For example, when n = 3, and R_2 represents hydrogen, claim 1 is drawn to a method of using a peptide of the following formula to alleviate pain:

As applicants are no doubt aware, Leu-enkephalin is a well-known analgesic peptide, which has the sequence Tyr-Gly-Gly-Phe-Leu. This is encompassed by claim 1 when the substituent variables correspond as follows:

 R_1 = phenylethyl that is substituted once with amino (*alpha*- to the carbonyl group) and once (on the phenyl ring) with hydroxyl;

 R_{3a} = hydrogen;

 R_{3b} = hydrogen;

 R_{3c} = benzyl;

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R = 1-(4-methylbutane) that is "substituted" with carboxy.

Given the compounds as recited, any and all peptides are encompassed, provided that they contain at least one *alpha*-amino acid. Even proteins having a molecular weight of 50 kD would be encompassed. Accordingly, the restriction given above is justified.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their divergent subject matter, restriction for examination purposes as indicated is proper.

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In addition to the foregoing, applicants are required under 35 U.S.C. §121 to elect a single disclosed specie for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. A "specie" is a specific compound with all substituent variables **fully** accounted for. In the event that one of Groups 16-20 is chosen for examination, a second election is required, namely one of pain, a headache, or bipolar disease. In the event that any of Groups 21-25 is chosen for examination, a second election is required, i.e., a specific disorder such as Alzheimer's Disease, Huntington's Disease, Down's syndrome, or dementia.

Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a generic claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are witten in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP 809.02(a).

Should applicant traverse on the ground that the species are not patentable distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. §103 of the other invention. Applicant is advised that for the response to this requirement to be complete, an election of the invention to be examined must be indicated, even if the requirement is traversed (37 C.F.R. 1.143).

Applicant is reminded that upon cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

Applicants are requested, but not yet required, to explain whether claim 58 contains a typographical error in the structural formula. It appears that the following may be intended:

Ar-CH₂-NH-CO-CH(CH₂Q)-NH-COCH₃

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 703-308-3213. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low, can be reached at (703) 308-2923. The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

DAVID LUKTON
PATENT EXAMINED
GROUP 1803